

**1043. PROPER PROCEDURE FOR LEAVING STEAM LOCOMOTIVES NO. 40 AND 97 DURING COLD WEATHER:**

During cold weather, (overnight temperatures of less than 30° F.), the following precautions should be taken to prevent pipes and hoses from freezing up:

1. The locomotive should be shut down and banked as per the usual procedures.
2. The following drain cocks should be opened fully:
  - Branch pipes (R&L)
  - Blower line beneath cab (blower drain adjacent to smokebox should be left open as usual).
3. The following winter drain cocks should be opened sufficiently to allow a continuous trickle of water:
  - Water lines to the injectors (R&L).
4. The steam heat valve shall be left open sufficiently to allow a wisp of steam at the steam heat connection at the end of the tender.
5. The squirt hose valve should be left open sufficiently to vent the line.

At the discretion of the C.M.O., R.F.E. or T.E., steam locomotives may be left outside with fire banked. In their absence, if overnight temperature is expected to be below 20 ° F., or if unusually severe weather conditions are expected, steam locomotives will be left in the shop overnight following these procedures:

1. The locomotive should be spotted directly in front of the shop.
2. The level in the boiler should be gradually raised to the top of the water glass.
3. The fire should be allowed to die down (almost out), no bank should be put in it.
4. When the water level has been raised, the fire has died down and the boiler pressure is no more than 160 PSI, the locomotive may be moved into the shop.
5. The smoke stack should be covered promptly upon being moved into the shop.
6. The locomotive should be shut down and left as per the usual procedures, except that no bank be left in the firebox and no winter drain cocks need be opened.

Outside water hoses and lines must be protected from freezing.

1. Large water hoses should be "walked out".
2. Stand pipe should be left disconnected.
3. Small water hose (ash pan hose) should be disconnected and brought into the shop promptly after use.
4. Vault valve should be turned off and ground-level valves adjacent to grease cabinet opened to vent lines. If vault valve cannot be turned off, ground-level valves should be left opened sufficiently to allow a continuous trickle of water.

□□□ END CHANGE □□□